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OM protein - protein search, using sw model

Run on: July 21, 2003, 08:35:34 ; Search time 14 Seconds
(without alignments)
468.665 Million cell updates/sec

Title: US-09-459-573-10
Perfect score: 1135
Sequence: 1 MMQLVHLFMDIETMDPLHAV.....IGAIIGVFALRLIVEGVGTQR 223

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.*

1: /cgn2_6/ptodata/1/1aa/5A_COMB.pep.*

2: /cgn2_6/ptodata/1/1aa/5B_COMB.pep.*

3: /cgn2_6/ptodata/1/1aa/6A_COMB.pep.*

4: /cgn2_6/ptodata/1/1aa/6B_COMB.pep.*

5: /cgn2_6/ptodata/1/1aa/PCTUS_COMB.pep.*

6: /cgn2_6/ptodata/1/1aa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	179	15.8	224	4	US-09-134-001C-4608
2	126.5	11.1	205	4	US-09-396-357-2
3	93.5	8.2	153	2	US-08-476-254-7
4	93.5	8.2	153	6	5474933-4
5	90	7.9	173	4	US-09-134-001C-4026
6	82	7.2	206	4	US-09-134-001C-3929
7	81	7.1	222	1	US-07-732-242C-7
8	79.5	7.0	225	4	US-09-351-224E-8
9	77.5	6.8	498	4	US-09-103-754A-5
10	75.5	6.7	348	4	US-09-134-001C-4857
11	75.5	6.7	617	1	US-07-879-617A-11
12	75.5	6.7	617	1	US-08-301-722A-3
13	75.5	6.7	617	1	US-08-240-783B-3
14	75.5	6.7	617	1	US-08-753-985-11
15	75.5	6.7	617	1	US-09-084-813-3
16	75.5	6.7	617	5	PCT-US92-09662-3
17	75.5	6.7	620	1	US-08-301-722A-2
18	74.5	6.6	405	4	US-09-255-984-2
19	74.5	6.6	619	1	US-07-762-132A-2
20	74.5	6.6	619	1	US-08-301-722A-4
21	74.5	6.6	729	4	US-09-231-522-29
22	73.5	6.5	1040	4	US-09-134-001C-5365
23	73	6.4	243	4	US-09-134-001C-2961
24	73	6.4	1495	4	US-08-462-467B-12
25	72.5	6.4	395	3	US-08-981-825-6
26	72.5	6.4	395	4	US-09-480-784-6
27	72	6.3	440	4	US-09-071-035-370

28 72 6.3 737 4 US-09-231-922-8 Sequence 8, Appli
29 72 6.3 1996 2 US-08-804-227C-9 Sequence 9, Appli
30 72 6.3 1996 2 US-08-804-198-3 Sequence 3, Appli
31 71.5 6.3 298 1 US-08-118-270-76 Sequence 76, Appli
32 71.5 6.3 298 5 PCT-US93-08528-76 Sequence 76, Appli
33 71.5 6.3 343 2 US-08-788-539A-2 Sequence 2, Appli
34 71.5 6.3 349 4 US-09-134-001C-4519 Sequence 4519, Ap
35 71.5 6.3 441 4 US-09-522-666-4 Sequence 4, Appli
36 71.5 6.3 493 2 US-09-031-392-10 Sequence 10, Appli
37 71.5 6.3 493 4 US-09-299-549-10 Sequence 10, Appli
38 71.5 6.3 493 4 US-09-610-417-10 Sequence 10, Appli
39 71 6.3 518 4 US-09-134-001C-4744 Sequence 4744, Ap
40 70.5 6.2 191 4 US-09-134-001C-5345 Sequence 5345, Ap
41 70.5 6.2 348 4 US-09-134-001C-2874 Sequence 2874, Ap
42 70.5 6.2 424 4 US-09-134-001C-5009 Sequence 5009, Ap
43 70.5 6.2 494 2 US-09-031-392-5 Sequence 5, Appli
44 70.5 6.2 494 4 US-09-299-549-5 Sequence 5, Appli
45 70.5 6.2 494 4 US-09-610-417-5 Sequence 5, Appli

ALIGNMENTS

RESULT 1

US-09-134-001C-4608
; Sequence 4608, Application US/09134001C
; Patent No. 6380370

; GENERAL INFORMATION:

; APPLICANT: Lynn Doucette-Stamm et al

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCC

; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: GTC-007

; CURRENT APPLICATION NUMBER: US/09/134.001C

; CURRENT FILING DATE: 1998-08-13

; PRIOR APPLICATION NUMBER: US 60/064, 964

; PRIOR FILING DATE: 1997-11-08

; PRIOR APPLICATION NUMBER: US 60/055, 779

; PRIOR FILING DATE: 1997-08-14

; NUMBER OF SEQ ID NOS: 5674

; SEQ ID NO 4608

; LENGTH: 224

; TYPE: PRT

; ORGANISM: Staphylococcus epidermidis

US-09-134-001C-4608

Query Match 15.8%; Score 179; DB 4; Length 224;

Best Local Similarity 23.4%; Pred. No. 3.8e-12;

Matches 49; Conservative 51; Mismatches 99; Indels 10; Gaps 6;

Qy 14 MDPLHAYLVGLVITFFNPGANLFVVVOTSLASGRAGVLTGLGVALGDAFYSGLGFLF 73

Db 15 MDGL-ITFIITLLIIIV--PGPDFIIVMKNTINSSKMGFMMAFGITTGILYSSLAIF 71

Qy 74 GLATLIQCCEIFSLIRIVGAYLLWFAGCS-MRQSTPQMS--TLQOPISAPVYVFFRR 130

Db 72 GIIVILSLHFVFTIKILGACILYILGKISLSAHSVDFSKQALADVNRVSVITTSFRQ 131

Qy 131 GLITDLNPOTVFFIFISFVTL---NAETPTWRLMAWAGIVLASIIRVFLSQAFSLP 187

Db 132 GFLSTSLNPKALLFYVSIFPQFLSNGNIHMKSEVALFAFS-VVVVICLWFLFCVFIQYI 190

Qy 188 AVRRAYGRMORVASRVITGAIIGVFALRLI 216

Db 191 KLLFSRPRFRAIFDIYGVFLIGLSINLL 219

RESULT 2

US-09-396-357-2

; Sequence 2, Application US/09396357

; Patent No. 6303348

; GENERAL INFORMATION:

; APPLICANT: LIVSHITS, VITALY ARKADIEVICH

; APPLICANT: ZAKATAEVA, NATALIYA PAVLOVNA

```

; APPLICANT: ALCOSHIN, VLADIMIR VENYAMIOVICH
; APPLICANT: BELAREOVA, ALL VALENTINOVNA
; APPLICANT: TOKHMAKOVA, IRINA LVONNA
; TITLE OF INVENTION: DNA CODING FOR PROTEIN WHICH CONFERES ON BACTERIUM
; TITLE OF INVENTION: ESCHERICHIA COLI RESISTANCE TO L0-HOMOSERINE AND METHOD
; TITLE OF INVENTION: FOR PRODUCING L-AMINO ACIDS
; FILE REFERENCE: 0010-1039-0
; CURRENT APPLICATION NUMBER: US/09/396,357
; EARLIER FILING DATE: 1999-09-15
; EARLIER APPLICATION NUMBER: RU98118425
; EARLIER FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 205
; TYPE: PRT
; ORGANISM: Escherichia coli
;
US-09-396-357-2

Query Match 11.1%; Score 126.5; DB 4; Length 205;
Best Local Similarity 21.9%; Pred. No. 2.3e-06;
Matches 44; Conservative 48; Mismatches 94; Indels 15; Gaps 6

QY 12 ITMDLPHAVYLTGLVFTTFNPQANLFVVQVTSLSGRRA-GVLTGLGVALGDAPYSGL 70
Db 1 MTEWFWFAYLLT---SIILLTSPGSGAINTMTTSLNHGYPAGGVYCWASDRGTGDSYCAGW 57
QY 71 GLFGLTATLITOCETEEIFSLIRIVGCGAYLLWFAWCSMRQSTPPQSTLQQIPISAPWVYFFER 130
Db 58 R-GVGTFLFSRVIAFEVLKWAAGAYLIWIGIQOWRAAGAIIDLKSLASTQSRRH--LFOR 113
QY 131 GLITDLSNPQTVEFISFISVTLNAETPTWARLMAWAGIVLASIIWRFLSQAFSLPAYR 190
Db 114 AFEVNLTPKSVIFLAALFPQFIMPQP---QLMQYIVLGVTTIVVDIIVMICYATLAQR 170
QY 191 RAY----GRMQRVASRVIGAI 207
Db 171 IALWIKGPKOMKALNKIEGSL 191

RESULT 3
US-08-476-254-7
; Sequence 7, Application US/08476254
; Patent No. 5846531
; GENERAL INFORMATION:
; APPLICANT: WEINER, RONALD M.
; APPLICANT: FUQUA, WILLIAM C.
; TITLE OF INVENTION: MARINE MELA GENE
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: WATSON COLE STEVENS DAVIS, P.L.L.C.
; STREET: 1400 K STREET NW
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-2477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/476,254
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: POULOS III, JAMES A.
; REGISTRATION NUMBER: 31,714
; REFERENCE/DOCKET NUMBER: JAP30319C
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202 628-0088
; TELEFAX: 202 628-8034
; INFORMATION FOR SEQ ID NO: 7:

```

RESULT 8
US-09-351-224E-8
; Sequence 8, Application US/09351224E
; Patent No. 6388171
; GENERAL INFORMATION:
; APPLICANT: Duvick, Jon
; APPLICANT: Magdoo, Joyce
; APPLICANT: Gilliam, Jacob
; APPLICANT: Folkerts, Otto
; APPLICANT: Crasta, Oswald R.
; TIME OF INVENTION: Compositions and

;; TITLE OF INVENTION: Detoxification
;; FILE REFERENCE: 5718-111
;; CURRENT APPLICATION NUMBER: US/09/351,224E
;; CURRENT FILING DATE: 1999-07-12
;; NUMBER OF SEQ ID NOS: 11
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 8
;; LENGTH: 525
;; TYPE: PRN
;; ORGANISM: Exophiala spinifera
US-09-351-224E-8

Query Match 7.0%; Score 79.5; DB 4; Length 525;
Best Local Similarity 23.8%; Pred. No. 1.4;
Matches 48; Conservative 35; Mismatches 80; Indels 39; Gaps 8;
QY 22 LVGLFVITFF-----NPGA-NLFVVVQTSLSARRAGVLTGLGVALGDAPYSLGLGFG 74
Db 201 LTIALFVTSFIAILARSNPKNQSVWTAMSNYTGSDGVCFILG--LSTSCFMFIGLDA 258
QY 75 LATLITQCEIEFSLI-RIVGGAYLLWFAWCMRRQSTPQMSTLQOPIAPWVYVFFRGLI 133
Db 259 AMHAEECTDAARTPKAVVSAIIIGF--CT-----AFPTIIVLYG-I 299
QY 134 TDLNPNQTVLFFISFISVTLNAPTPTWRLMAGIVLASIIRVFLSQAFSLPAVRAY 193
Db 300 TDLNLSAGYIPETMTQSLRSLSFATVLSGCGIVMA-----FPALNAVQETA 349
QY 194 GMRQVASRVICAIIGVFAIRL 215
Db 350 SRLTWSFARDNGLVFSTHLERI 371

RESULT 9
US-09-103-754A-5
;; Sequence 5, Application US/09103754A
;; Patent No. 6344548
;; GENERAL INFORMATION:
;; APPLICANT: Farese, Robert
;; APPLICANT: Cases, Sylvaine
;; APPLICANT: Smith, Steven
;; APPLICANT: Erickson, Sandra
;; TITLE OF INVENTION: Diacylglycerol O-acyltran
;; TITLE OF INVENTION: sferase
;; NUMBER OF SEQUENCES: 6
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Bozicevic & Reed
;; STREET: 285 Hamilton Avenue, Suite 200
;; CITY: Palo Alto
;; STATE: CA
;; COUNTRY: USA
;; ZIP: 94301
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: DOS
;; SOFTWARE: FastSeq for Windows Version 2.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/103,754A
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER:
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Field, Bret E
;; REGISTRATION NUMBER: 37,620
;; REFERENCE/DOCKET NUMBER: 6510-105p
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 650 327 3400
;; TELEFAX: 650 327 3231
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 5:

;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 498 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
US-09-103-754A-5
Query Match 6.8%; Score 77.5; DB 4; Length 498;
Best Local Similarity 22.0%; Pred. No. 2.1;
Matches 42; Conservative 28; Mismatches 62; Indels 59; Gaps 9;
QY 2 MOLVHLFMDITMDPLHAYLVLTGVLVITFFNPGANLFFVVQTSLSAG---RRAGVLTG- 57
Db 127 IQVLSFLKDPYSWAPCVIIASNIFVVAFAQ-----IEKRLAVGALTQMGLLLHV 178
QY 58 LQVALGDAPYSLGLFGLATLITQCEIEFSLIRIVGGAYLLWF-----AWCSMR 107
Db 179 VNLATIIICPPAAVAL--LVESITPVGSVFAL-----ASYSIMFLKLYSYRDVNLWCQR 231
QY 108 QSTPMST-----LQOPIAP-----WYVFFRGLITDLSNPOT----- 141
Db 232 VKAKAVSTGKVKVGAQAQAVSDPNLTYRDLYIFAPTCLCYELNFPSPRIKRELLR 291
QY 142 ----VLFITSI 148
Db 292 RVLEMLFTQL 302
RESULT 10
US-09-134-001C-4857
;; Sequence 4857, Application US/09134001C
;; Patent No. 6380370
;; GENERAL INFORMATION:
;; APPLICANT: Lynn Doucette-Stamm et al
;; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCC
;; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
;; FILE REFERENCE: GTC-007
;; CURRENT APPLICATION NUMBER: US/09/134,001C
;; CURRENT FILING DATE: 1998-08-13
;; PRIOR APPLICATION NUMBER: US 60/064,964
;; PRIOR FILING DATE: 1997-11-08
;; PRIOR APPLICATION NUMBER: US 60/055,779
;; PRIOR FILING DATE: 1997-08-14
;; NUMBER OF SEQ ID NOS: 5674
;; SEQ ID NO 4857
;; LENGTH: 348
;; TYPE: PRN
;; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4857
Query Match 6.7%; Score 75.5; DB 4; Length 348;
Best Local Similarity 19.5%; Pred. No. 2.2;
Matches 43; Conservative 44; Mismatches 78; Indels 55; Gaps 9;
QY 2 MOLVHLFMDITMDPLHAYLVLTGVLVITFFNPGANLFFVVQTSLS--ASGRAGVLTGLG 59
Db 90 LAIAGLLMQAITKNPLASPO-----IFGVNAGASFVILVITLIPSLGYSYSLIAIIG 142
QY 60 VALGDAPYSLGLFGLATLITQCEIEFSL-IRIVGGAYLLWFAWCMRRQSTPQMSTLQO 118
Db 143 AFLGG-----FTVYILSGSTKSTPIKIALAGMAHLFF-----SSMTQ 181
QY 119 PISAPWYVFFRGLITDLSNPOTVLFII--SIFSVTLNAAETPTWRLMAGIVLASIIR 176
Db 182 GI-----IILNEDSNDTVMFLVGLSLAGI-----KWQIIIFILFLLAIFV 223
QY 177 RVFLSQAFSL----PAVERAYGRMORVASRVIGAIIGVFA 212
Db 224 TIFMGRQLTILELGDGIARGLQRTTEIVRMIVGILVWVLA 263

RESULT 11


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? LOCATION: 93..96
? OTHER INFORMATION: /note= "Leucine zipper motif"
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? FEATURE:
?
? NAME/KEY: Active-site
? LOCATION: 102..103
? OTHER INFORMATION: /note= "Leucine zipper motif"
?
? FEATURE:
?
? NAME/KEY: Active-site
? LOCATION: 109..110
? OTHER INFORMATION: /note= "Leucine zipper motif"
?
? FEATURE:
?
? NAME/KEY: Active-site
? LOCATION: 116..117
? OTHER INFORMATION: /note= "Leucine zipper motif"
?
? US-08-753-985-11
?
? Query Match 6.7%; Score 75.5; DB 1; Length 617;

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Db 8 ALFL---VMAIASPGDLPFOIIRLS-AKNRRDGVLTAVGIMVGNISWIIASLIGLSAL 63
QY 79 IQCEEISLIRIVGAYLLWFANWCSMR-----RQSTPQMSLTQQPI-----SAPW 124
Db 64 ISTYPAIINLLQVGGGLTWGIGAVRSWTKRSTQQAADSQAVENTLVATATAASGV 123
QY 125 YVFERGLITDLSNPQTFFISFVTLNAETPTWARLMAWAGIVLASIIRVFLSQAF 184
Db 124 WPAISGATNLSNPKAVLFVGSVFAQVVRPDMGIGWSIFGTGFLTGLLWV-----GF 179
QY 185 SUPAVRAYGRMQRVASRVIGAILGVFALRL-----IYEGV 220
Db 180 AVLVRKLAAGLRNGA--IIDLLTGVIIFGLGMEFEGV 217

RESULT 2

US-09-738-626-6418
; Sequence 6418, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:

; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIKO
; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAKO
; APPLICANT: SENOH, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OKAZAKI, AKIO

; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-125
; CURRENT APPLICATION NUMBER: US/09/738,626

; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/377484
; PRIOR FILING DATE: 1999-12-16

; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; PRIOR FILING DATE: 2000-08-03

; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 6418

; LENGTH: 207

; TYPE: PRT

; ORGANISM: Corynebacterium glutamicum

US-09-738-626-6418

Query Match 15.8%; Score 179; DB 11; Length 207;

Best Local Similarity 31.6%; Pred No. 4.2e-11;

Matches 65; Conservative 32; Mismatches 87; Indels 22; Gaps 9;

QY 19 AVLVTVGLVITFFPNPGANLFVVVQTSLSAGRRAGVLTGLGVALGDFAFYSGLGLFGLATL 78

Db 10 ALALLVALAV-----PGPDL-VLVLSATRGIRTGVMTAAGIMTGLMLHASLAIAGATAL 63

QY 79 IQCEEISLIRIVGAYLLWFANWCSMR-RQSTPQMSLTQQPI-SAPWVFFRGLITDLS 137

Db 64 LLSAPGVLSAQLLQAGVLLWMTNMFASQNTGSETAASQSSAGYP---RGFTNAT 119

QY 138 NPQTVLFTISFVTL-NAETPTWARLMAWAGIVLASIIRVFLSQAFSLPAVRAYGRM 196

Db 120 NPKALLFAAILPQIIGNEDKMKRTLALCATIVLGSAGWNL-----GTALVRGIG-L 172

QY 197 QRV---ASRVIGAILGVFALRIYEGV 220

Db 173 OKLPSADRII-TLVGGIALFLIGACL 197

RESULT 3

US-10-156-761-10918

; Sequence 10918, Application US/10156761

; Publication No. US20030119018A1

; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 10918

; LENGTH: 217

; TYPE: PRT

; ORGANISM: Streptomyces avermitilis

US-10-156-761-10918

Query Match 15.4%; Score 175; DB 15; Length 217;

Best Local Similarity 27.9%; Pred. No. 1.2e-10;

Matches 60; Conservative 34; Mismatches 97; Indels 24; Gaps 8;

QY 21 YLTGVLVITFFPNPGANLFVVVQTSLSAGRRAGVLTGLGVALGDFAFYSGLGLFGLATLIT 80

Db 10 YL-AGLVILVLL-PGPNSLYVLSVAARKGVAGYTAAGVWCGDVTVMTLTSAAGVASLLQ 67

QY 81 QCEEISLIRIVGAYLLWFANWCSMR-----RQSTPQMSLTQQPIIS-----APWVFFR 129

Db 68 ANALLFGIVKYGAGYLTWLAFLGMLRAAWEMWRTRRDADAARAPVAVGERP-----FR 123

QY 130 RGLITDLSNPQTVLFFISIF--SVTLNAETPTWARLMAWAGIVLASIIRVFLSQAFSLP 187

Db 124 RAFVVSFLNPKAILFFVAFVDFVDPGYAYPALSFVVLGAFQAQLASFLYLTAL--IFSCT 181

QY 188 AVRRAYGRMQRV---ASRVIGAILGVFALRIYEG 219

Db 182 KLAARFRKRRLSAGATTAAGALFLGFAVKLTLAG 216

RESULT 4

US-10-156-761-11297

; Sequence 11297, Application US/10156761

; Publication No. US20030119018A1

; GENERAL INFORMATION:

; APPLICANT: OMURA, SATOSHI

; APPLICANT: IKEDA, HARUO

; APPLICANT: ISHIKAWA, JUN

; APPLICANT: HORIKAWA, HIROSHI

; APPLICANT: SHIBA, TADAYOSHI

; APPLICANT: SAKAKI, YOSHIYUKI

; APPLICANT: HATTORI, MASAHIRA

; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES

; FILE REFERENCE: 249-262

; CURRENT APPLICATION NUMBER: US/10/156,761

; CURRENT FILING DATE: 2002-05-29

; PRIOR APPLICATION NUMBER: JP 2001-204089

; PRIOR FILING DATE: 2001-05-30

; PRIOR APPLICATION NUMBER: JP 2001-272697

; PRIOR FILING DATE: 2001-08-02

; NUMBER OF SEQ ID NOS: 15109

; SEQ ID NO 11297

; LENGTH: 205

; TYPE: PRT

; ORGANISM: Streptomyces avermitilis

US-10-156-761-11297

Query Match 14.8%; Score 168; DB 15; Length 205;

Best Local Similarity 25.9%; Pred. No. 6e-10;

Matches	52;	Conservative	39;	Mismatches	90;	Indels	20;	Gaps	8;
QY	19	AVYLTVGLVFITFENPGANLVVVVQTSLSGRGRAGVLTLGLGVALGDFAFYSGLGFLGLATL	78						
Db	7	AAFLAIDLVLV--FTPGADWAYAIAAGLRD--RSVVPFAVLGAVAGYAGYTLAVAGLVVI	62						
QY	79	ITQCEILFSLIRIVGAYLLWFAWNCWRRROSTFQMSTLQOIPASNPWTVFFRGLTLTDLN	138						
Db	63	VAGSASLLTALTVLGAYLLITLWGLSWLARLPATPQASA-EAFAASRWIRVLRGAGISGL-N	120						
QY	139	POVULFFSIFSVTLN-----AETPTWARL-MAWAGIV--LASIIVRVLQAFSLP	187						
Db	121	PKALLLYSLFPQFIHPGEGWPVAAQTGLFGLTHMASCAYVLAVGLARTVLK--ARP	177						
QY	188	AVRRAYGRMQRVASRVIGATL	208						
Db	178	TAARAVARYSGTMMIVIGGL	198						

RESULT 5

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US-09-738-626-6070
; Sequence 6070, Application US/09738626
; Publication No. US20020197605A1
;
; GENERAL INFORMATION:
;
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIRO
; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAOKO
; APPLICANT: SENOH, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OKAZI, AKIO
;
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
;
; FILE REFERENCE: 249-125
;
; CURRENT APPLICATION NUMBER: US/09/738,626
; CURRENT FILING DATE: 2000-12-18
;
; PRIOR APPLICATION NUMBER: JP 99/377484
;
; PRIOR FILING DATE: 1999-12-16
;
; PRIOR APPLICATION NUMBER: JP 00/159162
;
; PRIOR FILING DATE: 2000-04-07
;
; PRIOR APPLICATION NUMBER: JP 00/280988
;
; PRIOR FILING DATE: 2000-08-03
;
; NUMBER OF SEQ ID NOS: 7059
;
; SOFTWARE: PatentIn ver. 3.0
;
; SEQ ID NO 6070
;
; LENGTH: 223
;
; TYPE: PRT
;
; ORGANISM: Corynebacterium glutamicum
;
US-09-738-626-6070

```

Query Match	14.6%;	Score 166;	DB 11;	Length 223;
Best Local Similarity	26.0%;	Pred. No. 1.1e-09;		
Matches	56;	Conservative 50;	Mismatches 83;	Indels 26; Gaps 7;
QY	26	LFWITPENPGANLFFVVQTSILASGRRAAGVLTGL-GVALGDFAFYSGLGFLGATLITOC EE	84	
Db	12	LNLVGSLSPPGFDFELR--LATFSRAHATAGVAGIVTGLTWTLFVVGAAALLTTTPS	69	
QY	85	IFSLIRIVGGAYLLWFAWCMMRRSTQMSTLQOPI SA-----PWVY-----FFRRG	131	
Db	70	ILGTIQGVGYTYSFGYKLLRSARELIDARQFRFNADARP IDPAVEALGTRTQVYRQG	129	
QY	132	LITDLSNPQTVLFFISFTYLNAETTFWARLMAWAGIVLASIWRVFLSOA----FSL	186	
Db	130	LAINLSNPKVMVFPAALAPLMPHP---SPVLAFS--IIVAILLQTVFTVSACCLIVST	184	
QY	187	PAVRRAYGRMQRVASRVIGAIIGVFALRLIYE GT	221	
Db	185	ERYRKAMLRAGPWFDDLGA VVFLVVGVTLLYE GLT	219	

RESULT 6
 US-09-746-660A-14
 , Sequence 14, Application US/09746660A
 , Publication No. US20030049804A1
 , GENERAL INFORMATION:
 , APPLICANT: Pompejus, Markus
 , APPLICANT: Kroger, Burkhard
 , APPLICANT: Schroder, Hartwig
 , APPLICANT: Zelder, Oskar
 , APPLICANT: Haberhauer, Gregor
 , APPLICANT: Kim, Jun-Won
 , APPLICANT: Lee, Heung-Schick
 , APPLICANT: Hwang, Byung-Joon
 , TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
 , TITLE OF INVENTION: METABOLIC PATHWAY PROTEINS
 , FILE REFERENCE: BG1-121CP2
 , CURRENT APPLICATION NUMBER: US/09/746,660A
 , CURRENT FILING DATE: 2000-12-22
 , PRIOR APPLICATION NUMBER: 05/606740
 , PRIOR FILING DATE: 2000-06-23
 , PRIOR APPLICATION NUMBER: 09/603124
 , PRIOR FILING DATE: 2000-06-23
 , PRIOR APPLICATION NUMBER: 60/141031
 , PRIOR FILING DATE: 1999-06-25
 , PRIOR APPLICATION NUMBER: 60/142101
 , PRIOR FILING DATE: 1999-07-02
 , PRIOR APPLICATION NUMBER: 60/148613
 , PRIOR FILING DATE: 1999-08-12
 , PRIOR APPLICATION NUMBER: 60/187970
 , PRIOR FILING DATE: 2000-03-09
 , PRIOR APPLICATION NUMBER: DE 19931420.9
 , PRIOR FILING DATE: 1999-07-08
 , NUMBER OF SEQ ID NOS: 125
 , SOFTWARE: PatentIn Vers. 2.0
 , SEQ ID NO 14
 , LENGTH: 223
 , TYPE: PRT
 , ORGANISM: Corynebacterium glutamicum
 US-09-746-660A-14

Query Match	14.68;	Score	166;	DB	12;	Length	223;
Best Local Similarity	26.08;	Pred. No.	1.1e-09;				
Matches	56;	Conservative	50;	Mismatches	83;	Indels	26;
Gaps	7						
Qy	26	LFVTFNPGANLFVVVQTSLSAGRRAGVLTGL-GVALGDFAFYSGLGLFGLATLITQCEE	84				
Db	12	LNLVGSLSPGPDFFLLR--LATSRRAHAGVAGIVTGLTWVTLTVVGAALLTTTPS	69				
Qy	85	IFSLIRIVGAYLLWFWACWSMRRSTQPMSTLQOPISA-----PWYV-----FFRRG	131				
Db	70	ILGIQLVGGGYLSFGYKLLRSASRELIDARQFRFNADARPIPDVAEALGTRTQVYRQG	129				
Qy	132	LITDLSNPQVTFPISIFSVTLNATPTPWRLMAWAGIVLASIITWRVFLSOA-----FSL	186				
Db	130	LATNLSNPKVVVMYFAAILAPLMPHPH---SPVLAFS--IIVAILVQTFVTFSAVCLIVST	184				
Qy	187	PAVRAYGRMQRVASRVIGALIGYFALRLIYEGVT	221				
Db	185	ERYRKAMLRAGPWFEDLLAGVVFLVVGVTLLYEGLT	219				

RESULT 7
US-10-156-761-7796
; Sequence 7796, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA

```
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156.761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 7796
; LENGTH: 224
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-7796

Query Match      12.4%; Score 140.5; DB 15; Length 224;
Best Local Similarity 22.4%; Pred. No. 5.6e-07;
Matches 46; Conservative 38; Mismatches 78; Indels 43; Gaps 6;

Qy      24 VGLFVITTFENPCANLFFVVTSL---ASGRAGVLTGLGVALGDAFYSGGLFGLGLATLIT 80
Db      9 LGVIVAVVPGPDLFVVVRSATEHPAKGRAA-----ALGAOSGLCVHMLAAVGLSLIAA 64

Qy      81 QCEEIFSLIRIVGGAYLLWF---AWCSMRRO-----STPQMSTLQOPI 120
Db      65 RSPAVYDAIRLLGAAYLVLCVRAVLAARRAARERAGREAVGGVEDGTDPTPEERAPA 124

Qy      121 SAPWVFFRRGLITLDSNPQVLFISFVTLNAETPTWARLM-----AWAG 168
Db      125 HGRVRSFTQGLTNVLNPKAALFFLSLPQFVHGGSTSRQIFFLGTLDIVIGVAYWFA 184

Qy      169 IVLASIIWRVLSQAFSLPAVRAY 193
Db      185 LVVAARLARFLAR----PKVRHGW 205

RESULT 8
US-09-927-395-2
; Sequence 2, Application US/09927395
; Patent No. US20020058314A1
; GENERAL INFORMATION:
; APPLICANT: LIVSHITS, VITALY ARKADIEVICH
; APPLICANT: ZAKATAEVA, NATALIYA PAVLOVNA
; APPLICANT: ALCOSHIN, VLADIMIR VENVAMIOVICH
; APPLICANT: BELAREOVA, ALL VALENTINOVNA
; APPLICANT: TORHMAKOVA, IRINA LVOVNA
; TITLE OF INVENTION: DNA CODING FOR PROTEIN WHICH CONFERS ON BACTERIUM
; TITLE OF INVENTION: ESCHERICHIA COLI RESISTANCE TO L0-HOMOSERINE AND METHOD
; FILE REFERENCE: 0010-1039-0
; CURRENT APPLICATION NUMBER: US/09/927,395
; CURRENT FILING DATE: 2001-08-13
; PRIOR APPLICATION NUMBER: 09/396,357
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: RU98118425
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; TYPE: PRT
; ORGANISM: Escherichia coli
US-09-927-395-2

Query Match      11.1%; Score 126.5; DB 10; Length 205;
Best Local Similarity 21.9%; Pred. No. 1.5e-05;
Matches 44; Conservative 48; Mismatches 94; Indels 15; Gaps 6;

Qy      12 ITMDPLHAYLTVGLFVITTFENPCANLFFVVTSLASGRRA-GVLTGLGVALGDAFYSGL 70
Db      1 MTLWWFAYLLT---SIITLSPGSGAINTMTTSLNHGYPAGGYVCWASDRGSDYCAGW 57

Qy      71 GLFGLATLITQCEEIFSLIRIVGGAYLLWFAWCSMRROSTPQMSTLQOPIAPWVYVFFRR 130
Db      58 R-GVGTLFSRSVIAFEVLKWAAGAYLLIWLGLQWRAGAGIDLKSLASTQSRRH--LFQR 113

Qy      131 GLITDLSNPQTVLFFISFVTLNAETPTWARLMAGAGIVLASIIRVFLSQAFSLPAVR 190
Db      114 AVFVNLTPKRSIVFLAALFPQFIMPOQP---OLMQYIVLGVTTIVVDIIVMIGYATLAOR 170

Qy      191 RAY----GRMORVASRVIGAI 207
Db      171 IALWIKGPKQMKALNKIFGSL 191

RESULT 10
US-10-156-761-8659
; Sequence 8659, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
```


;; CURRENT FILING DATE: 2000-12-22
;; PRIOR APPLICATION NUMBER: 09/606740
;; PRIOR FILING DATE: 2000-06-23
;; PRIOR APPLICATION NUMBER: 09/603124
;; PRIOR FILING DATE: 2000-06-23
;; PRIOR APPLICATION NUMBER: 60/141031
;; PRIOR FILING DATE: 1999-06-25
;; PRIOR APPLICATION NUMBER: 60/142101
;; PRIOR FILING DATE: 1999-07-02
;; PRIOR APPLICATION NUMBER: 60/148613
;; PRIOR FILING DATE: 1999-08-12
;; PRIOR APPLICATION NUMBER: 60/187970
;; PRIOR FILING DATE: 2000-03-09
;; PRIOR APPLICATION NUMBER: DE 19931420.9
;; PRIOR FILING DATE: 1999-07-08
;; NUMBER OF SEQ ID NOS: 125
;; SOFTWARE: PatentIn Vers. 2.0
;; SEQ ID NO 52
;; LENGTH: 233
;; TYPE: PRT
;; ORGANISM: Corynebacterium glutamicum
US-09-746-660A-52

Query Match 8.1%; Score 92; DB 12; Length 233;
Best Local Similarity 22.9%; Pred. No. 0.081;
Matches 54; Conservative 33; Mismatches 101; Indels 48; Gaps 10;

QY 22 LTVGLFVITFFNPGANLVVVVQTSLSGRRAGVLTGLGVAL-GDAFYSGLGFLGLATLIT 80
DB 8 LLLGASLLSISGP-QNVLVIKQ-----GIKREGLIAVLLVCLISDVFLFTAGTGLGVDLLSN 62
QY 81 QCEEIFSLIRIVGGAYLLWFAMCSMRROST-----POMSTLQOPI SAP----- 123
DB 63 AAPVLDIMRWGGIAYLLWFAMVAAKADMTNKVEAPQIIEETEP-TVPDDTPLGGSVAT 121
QY 124 -----WVFFRRGLITDLSNPQVTL-FFISFVSVTLNAETPTWARLMA 165
DB 122 DTRNRVRVEVSVDKQVWVKPMLMAIVLTWLPNAYLDAFVFIGGV--GAQYGDGTGRWIF 179
QY 166 WAGIVLASIIRVFLSQAFSLPAVRAYG--RMQRVASRVIGAIIGVFALRIIYEG 219
DB 180 AAGAFASLIW--FPLVGFGAALSRPLSSPKVWRWINVVAVVMTALAIKLMLMG 233

RESULT 14
US-10-196-232-25
;; Sequence 25, Application US/10196232
;; Publication No. US20030113899A1
;; GENERAL INFORMATION:
;; APPLICANT: YAMAGUCHI, MIKIKO
;; APPLICANT: ITO, HISAO
;; APPLICANT: GUNJI, YOSHIYA
;; APPLICANT: YASUEDA, HISASHI
;; TITLE OF INVENTION: METHOD FOR PRODUCING L-ARGININE
;; FILE REFERENCE: 225391US0
;; CURRENT APPLICATION NUMBER: US/10/196,232
;; PRIOR FILING DATE: 2002-07-17
;; PRIOR APPLICATION NUMBER: JP 2001-224586
;; PRIOR FILING DATE: 2001-07-25
;; NUMBER OF SEQ ID NOS: 35
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 25
;; LENGTH: 233
;; TYPE: PRT
;; ORGANISM: Corynebacterium glutamicum
US-10-196-232-25

Query Match 8.1%; Score 92; DB 15; Length 233;
Best Local Similarity 22.9%; Pred. No. 0.081;
Matches 54; Conservative 33; Mismatches 101; Indels 48; Gaps 10;
QY 22 LTVGLFVITFFNPGANLVVVVQTSLSGRRAGVLTGLGVAL-GDAFYSGLGFLGLATLIT 80

DB 8 LLLGASLLSISGP-QNVLVIKQ-----GIKREGLIAVLLVCLISDVFLFTAGTGLGVDLLSN 62
QY 81 QCEEIFSLIRIVGGAYLLWFAMCSMRROST-----POMSTLQOPI SAP----- 123
DB 63 AAPVLDIMRWGGIAYLLWFAMVAAKADMTNKVEAPQIIEETEP-TVPDDTPLGGSVAT 121
QY 124 -----WVFFRRGLITDLSNPQVTL-FFISFVSVTLNAETPTWARLMA 165
DB 122 DTRNRVRVEVSVDKQVWVKPMLMAIVLTWLPNAYLDAFVFIGGV--GAQYGDGTGRWIF 179
QY 166 WAGIVLASIIRVFLSQAFSLPAVRAYG--RMQRVASRVIGAIIGVFALRIIYEG 219
DB 180 AAGAFASLIW--FPLVGFGAALSRPLSSPKVWRWINVVAVVMTALAIKLMLMG 233

RESULT 15
US-09-738-626-6955
;; Sequence 6955, Application US/09738626
;; Publication No. US20020197605A1
;; GENERAL INFORMATION:
;; APPLICANT: NAKAGAWA, SATOSHI
;; APPLICANT: MIZOGUCHI, HIROSHI
;; APPLICANT: ANDO, SEIKO
;; APPLICANT: HAYASHI, MIKIKO
;; APPLICANT: OCHIAI, KEIKO
;; APPLICANT: YOKOI, HARUHIKO
;; APPLICANT: TATEISHI, NAOKO
;; APPLICANT: SENOH, AKIHIRO
;; APPLICANT: IKEDA, MASATO
;; APPLICANT: OZAKI, AKIO
;; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
;; FILE REFERENCE: 249-125
;; CURRENT APPLICATION NUMBER: US/09/738,626
;; CURRENT FILING DATE: 2000-12-18
;; PRIOR APPLICATION NUMBER: JP 99/377484
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: JP 00/159162
;; PRIOR FILING DATE: 2000-04-07
;; PRIOR APPLICATION NUMBER: JP 00/280988
;; PRIOR FILING DATE: 2000-08-03
;; NUMBER OF SEQ ID NOS: 7059
;; SOFTWARE: PatentIn ver. 3.0
;; SEQ ID NO 6955
;; LENGTH: 236
;; TYPE: PRT
;; ORGANISM: Corynebacterium glutamicum
US-09-738-626-6955

Query Match 8.1%; Score 92; DB 11; Length 236;
Best Local Similarity 22.9%; Pred. No. 0.083;
Matches 54; Conservative 33; Mismatches 101; Indels 48; Gaps 10;
QY 22 LTVGLFVITFFNPGANLVVVVQTSLSGRRAGVLTGLGVAL-GDAFYSGLGFLGLATLIT 80
DB 11 LLLGASLLSISGP-QNVLVIKQ-----GIKREGLIAVLLVCLISDVFLFTAGTGLGVDLLSN 65
QY 81 QCEEIFSLIRIVGGAYLLWFAMCSMRROST-----POMSTLQOPI SAP----- 123
DB 66 AAPVLDIMRWGGIAYLLWFAMVAAKADMTNKVEAPQIIEETEP-TVPDDTPLGGSVAT 124
QY 124 -----WVFFRRGLITDLSNPQVTL-FFISFVSVTLNAETPTWARLMA 165
DB 125 DTRNRVRVEVSVDKQVWVKPMLMAIVLTWLPNAYLDAFVFIGGV--GAQYGDGTGRWIF 182
QY 166 WAGIVLASIIRVFLSQAFSLPAVRAYG--RMQRVASRVIGAIIGVFALRIIYEG 219
DB 183 AAGAFASLIW--FPLVGFGAALSRPLSSPKVWRWINVVAVVMTALAIKLMLMG 236

Search completed: July 21, 2003, 08:36:28
Job time : 23 secs